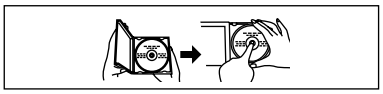
Concerning Compact Discs

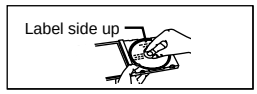
Only compact discs bearing this mark can be used with this unit.

However, continued use of irregular shape CDs can damage the unit.

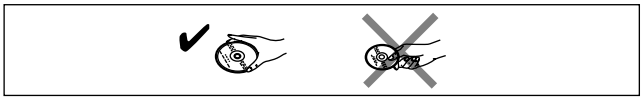
How to remove a disc from its case



How to store the disc in its case

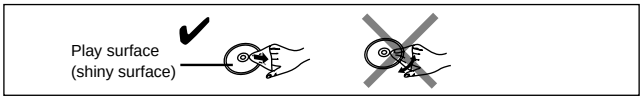


How to hold a disc



If the surface is dirty

Wipe it with a damp cloth and then wipe dry.
Wipe from the center toward the circumference.



Handling precautions

- If you are taking the CD from a cold to a warm environment, moisture may form on the CD. Wipe this off with a soft, dry, lint-free cloth before using the CD.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)
- Do not use scratch-proof protectors etc.

Storage precautions

Be sure to store CDs in their cases to protect them from dust, scratches, and warping.

Do not place or store CDs in the following places

- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance
- In the glove compartment or on the rear deck of an automobile

Portable CD player

Panasonic

Operating Instructions

Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

SL-CT480

Note:

"EB" on the packaging indicates the United Kingdom.

Supplied Accessories

Check the packing carton for these accessories.

AC adaptor 1
For United Kingdom (RFEA403B-S)
For others (RFEA403A-S)
Stereo earphones 1
(L0BAB0000165)
Wired remote control 1
(N2QCBD000010)
Adaptor 1
(RFA1631-H)

Use numbers indicated in parentheses when asking for replacement parts.

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

EB GN

Matsushita Electric Industrial Co., Ltd.
Osaka 542-8588, Japan

En RQT5873-B
F0101KK0

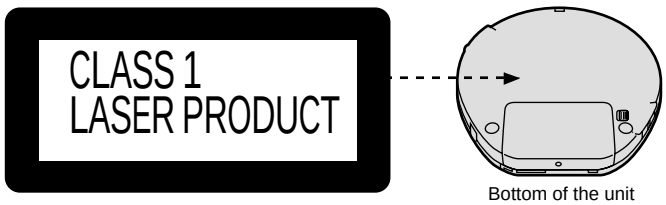
CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

Marking sign is located on bottom of the unit.



Bottom of the unit

DANGER	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.	(Bottom of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	(Påsat under apparatet)
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	(Tuotteen pohjassa)
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.	(Apparatens undersida)
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.	(Produktets underside)
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.	(Unterseite des Gerätes)

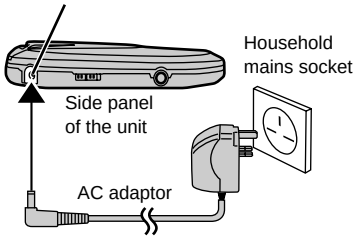
Power Supply Preparations

Refer to the specifications (page 6) for information on operating times when using rechargeable batteries or dry cell batteries.

Using the AC adaptor

Connect the AC adaptor supplied.

DC IN jack (DC IN 4.5 V ⟐⊙⟐)



Note

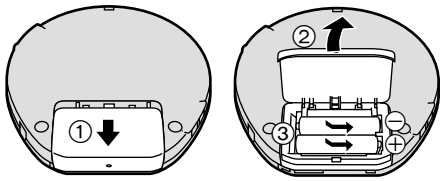
- The configuration of the AC adaptor differs according to the area.
- The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.
- Turn the unit off before connecting or disconnecting the AC adaptor.

Using the dry cell batteries (not included)

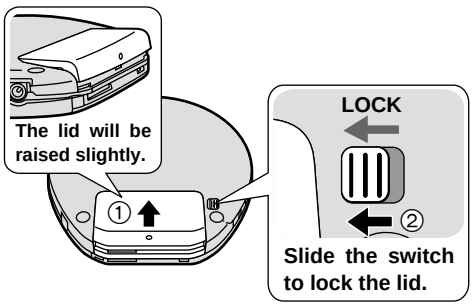
Insert two LR6 (UM-3) alkaline batteries or two LR03 (UM-4) alkaline batteries using the supplied adaptor.

When using LR6 (UM-3) batteries

1 Insert the batteries.

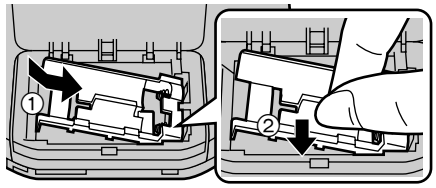


2 Close the battery lid.



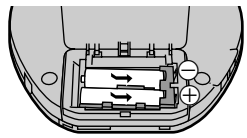
When using LR03 (UM-4) batteries

1 Insert the adaptor.

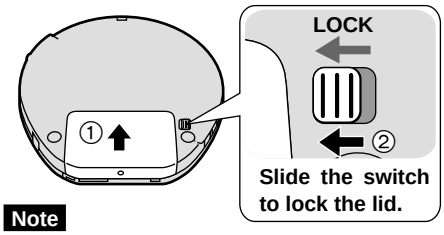


Reverse the above procedure to remove the adaptor.

2 Insert the batteries.



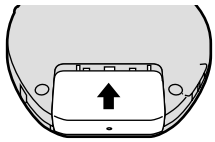
3 Close the battery lid.



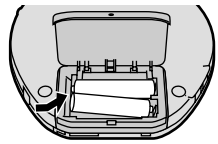
Note

Turn the unit off before replacing the dry cell batteries.

If the battery lid comes loose
Slide the lid back into place horizontally.



Removing batteries
Push up on the battery in the direction indicated by the arrow. Then lift it out. (Remove LR03 (UM-4) batteries in the same way.)



Using the rechargeable batteries (not included)

Recharge the batteries before use.
Use either AA (UM-3) batteries or, by inserting the supplied adaptor, AAA (UM-4) batteries. This unit cannot recharge batteries other than those especially designed for it.
Obtain the optional rechargeable batteries:

AA (UM-3) rechargeable Ni-Cd batteries
For United Kingdom: P-3GAVE/2B
For Others: P-3GAVT/2B

AAA (UM-4) nickel-metal hydride rechargeable batteries
For United Kingdom: HHR-4AHE/2B
For Others: HHR-4AHT/2B

Charging procedure

1 Insert the rechargeable batteries.
(Refer to "Using the dry cell batteries".)

2 Connect the AC adaptor.
(Refer to "Using the AC adaptor".)
Recharging starts and the "CHG" charging indicator flashes on the unit's display. The indicator goes out when charging is complete.

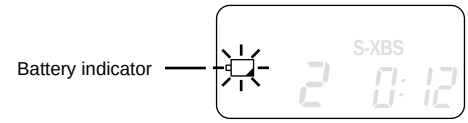
3 When charging is complete, unplug the AC adaptor from the household mains socket and DC IN jack.

- **Never mix dry cell and rechargeable batteries.**
- **Turn the unit off before replacing the rechargeable batteries.**

Note

- Rechargeable batteries have a service life of approximately 300 charge-discharge cycles. The batteries have reached the end of their operational life if they last for a noticeably shorter time after recharging, or if they cannot be recharged at all. Replace the batteries.
- Recharging may only be performed when the unit is powered off.
- The AC adaptor and rechargeable batteries may become warm while recharging is in progress. This is not a malfunction.
- Leaving the AC adaptor connected can cause the batteries to go flat. After recharging the batteries and disconnecting the AC adaptor from the AC power outlet, ensure you disconnect the AC adaptor from the unit's [DC IN 4.5 V ⟐⊙⟐] terminal.

Battery indicator



This indicator flashes when the batteries are almost out of power. Power is cut off completely a short while later.
Rechargeable batteries: Recharge batteries.
Dry cell batteries: Replace batteries with new ones.

Note

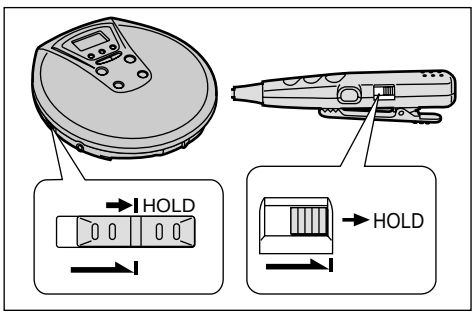
- The length of time the unit will continue to operate between when the battery indicator starts flashing and when the power is cut off differs depending on the type of batteries used.
- The battery indicator may not flash if rechargeable batteries other than those designated by Panasonic are used.

Using the car adaptor (not included)

Be sure to obtain the car adaptor (SH-CDC9), available as an optional accessory.
The car adaptor can be used to recharge the unit's batteries while in the car.

If the unit malfunctions or freezes during use, disconnect the power sources (the AC adaptor or batteries).
Re-connect the power source and continue operation.

HOLD Function



This function causes the unit to ignore short, accidental button presses. (The disc lid can still be opened and closed.)

The HOLD function prevents the following:

- The unit is powered on accidentally when not in use, causing the batteries to run down.
- A button is accidentally pressed during play, interrupting the operation.

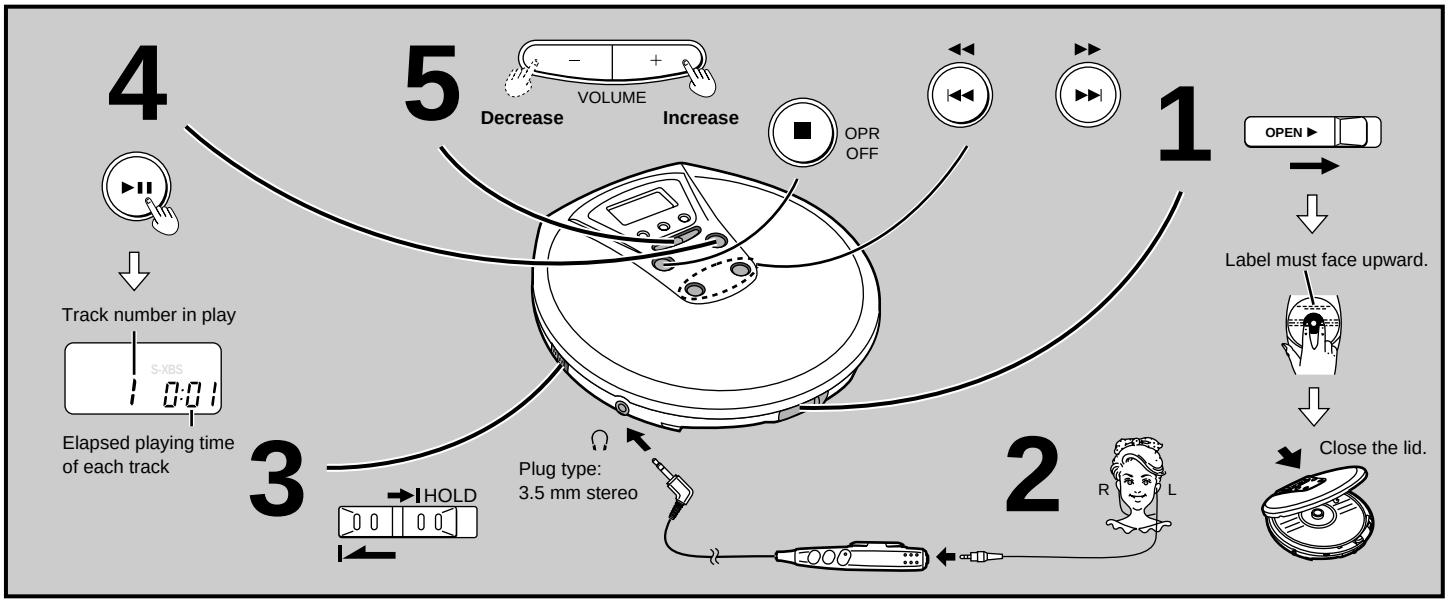
The unit and wired remote control have HOLD functions, each of which works independently.

To use the HOLD function
Set [HOLD] to the HOLD position.

"hold" indication
When the unit is in HOLD mode, pressing any button causes the indication "hold" to appear on the display.
When the unit is powered off
The "hold" indication appears only when [▶❚❚] (main unit) is pressed.

Before operating the buttons
Be sure to move [HOLD] to release the unit from the HOLD mode.

Sequential Play Basic Play



Follow steps 1–5.

In step 2: Connect the stereo earphones and the wired remote control to the headphone jack [🎧]. **(Plug in firmly.)**

In step 5: The volume range is 0-25. (Press and hold to change the volume successively.) The volume changes when pressed while the level is displayed. If any other display is shown, it changes to show the current level. (The volume returns to 10 when you disconnect the power source.)

- Play stops automatically when all the tracks have been played.
- If the unit has been connected to the car audio system, set this unit's volume to 10, then adjust the volume level on the system.

Operation	Button	Display/reference
To pause play	Press during play. ►II	Press again to restart play.
To stop play **Stop mode**	Press during play. OPR OFF	Total number of tracks / Total playing time
To turn off the unit Off mode	Press during stop mode. OPR OFF	
Skipping tracks	Press during play. (Press [I◄◄] twice to skip to the beginning of the previous tracks.) ◄◄ ►►	● During program play (page 4), these buttons are used to skip forward or backward through the programmed sequence of tracks. ● You cannot skip to tracks that have been played in random or random repeat play (page 4). ● During program play, 1-track repeat play, random play and random repeat play (page 4), search operation is limited to the current track only.
Searching through tracks	**Backward** **Forward** Press and hold during play.	

For your reference:

"no dISC" indication

This indication appears for about 30 seconds if [►II] (main unit) or [■/►] (remote control) is pressed when no disc is loaded in the unit or if the disc is not properly secured.

"OPEN" indication

This indication appears for about 10 minutes when the lid is opened. (However, the indication does not appear when the unit is powered off.)

Resume function

The player stores the track where you stopped play and if you press [► II] (main unit) or [■/►] (remote control) play resumes from the beginning of the track.

The resume function is canceled (play starts from the first track) if you open the lid when the unit is in stop mode. It is also usually canceled when you replace the CD while the unit is off.

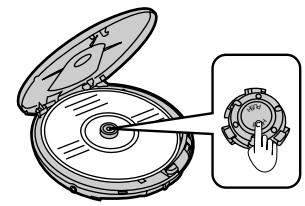
Note

- The resume function may work if you replace the CD while the unit is off.
- If you turned the unit off near the end of the track, play may resume from the beginning of the next track.
- The resume function works automatically and cannot be turned off.

Removing discs

1. **Press [■,OPR OFF] to stop play and disc rotation.**
2. **Slide [OPEN ►] to open the lid.**
3. **Press [PUSH] to release the disc.**

Do not stop the disc by hand or try to remove it before it stops rotating. This can damage CDs.



Note

Never insert foreign objects into the unit body.

Auto power off function

If you leave the unit in stop mode for about 10 minutes (30 seconds if disc isn't loaded), it turns off to save the batteries.

Anti-Skip System

This system deals with skipping in a variety of ways:

- The thinner and lighter construction makes the unit less susceptible to vibration.
- An anti-skip mechanism prevents skipping caused when play speed changes due to swinging of the unit.
- A recovery system immediately returns the laser pickup to its original position if it is knocked off the track by a strong shock.
- The 40 seconds anti-skip memory fills in interruptions caused by bumps and vibrations.

The anti-skip system works automatically while the unit is on and cannot be canceled.

When bumps continue repeatedly

The message "SORRY" appears on the display and sound is interrupted.

Note

The anti-skip memory compresses digital signals.

Note on CD-R and CD-RW

This unit can play CD-DA format audio CD-R and CD-RW that have been finalized* upon completion of recording. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Other Play Methods

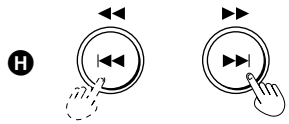
The letters such as Ⓐ in the illustrations refer to the descriptions in the "Location of Controls" section. (See below.)

Skip play

The disc plays from the specified track through to the end, then play stops automatically.

Preparation: Put unit in stop mode.

1 Select the desired track.



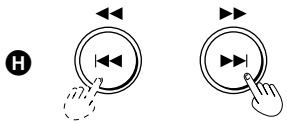
2

Program play

Up to 24 tracks can be entered in the programmed sequence.

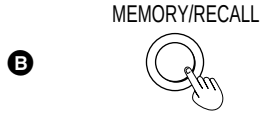
Preparation: Put unit in stop mode.

1 Select the desired track.



2 Register in sequence.

(The indication "M" and the programmed sequence appear on the display.)



3 Repeat steps 1 and 2 to program all the desired tracks.

4

■ **To program the same track in the sequence more than once**

After step 2, press [MEMORY/RECALL] the desired number of times.

■ **If "ƒ" is displayed**

No more tracks can be programmed.

■ **To confirm the contents of the program**

Press [MEMORY/RECALL] while the disc is playing. (The number of the programmed tracks appear on the display in sequence.)

■ **To delete the entire programmed sequence**

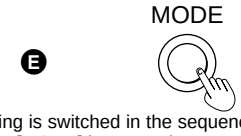
Press [■,OPR OFF].

Note

The repeat and random play modes are canceled after steps 1 and 2.

Repeat play/Random play

Press [MODE] while disc is playing or when unit is in stop mode.



The setting is switched in the sequence indicated below each time [MODE] is pressed.

1-track repeat (1 ↻)
One track is repeated.
↓
All-track repeat (↻)
All the tracks on the disc are repeated.
↓
Random (RANDOM)
The tracks play once each in random order and then play stops.
↓
Random repeat (RANDOM, ↻)
The tracks play repeatedly in random order.
↓
Cancel (no indicator is shown) → (1-track repeat)

When pressed during program play

The setting is switched in the sequence indicated below each time [MODE] is pressed.

1-track repeat (1 ↻ M)
One track is repeated.
↓
Memory repeat (↻ M)
The programmed tracks are repeated.
↓
Cancel (**M**) → (1-track repeat)

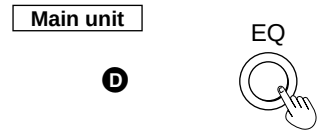
Note

- You can select the first track to play in random play and random repeat play by pressing [▶▶|] while the disc is stopped. All the tracks are played.
- You cannot select random play or random repeat play during program play.
- The mode is canceled when you disconnect the power source.

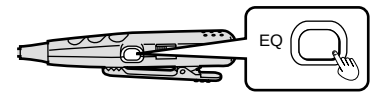
Changing the sound quality

Press during play or stop mode.

Main unit



Remote control



(Beep)

The setting switches in the sequence indicated below each time [EQ] is pressed.

S-XBS→**TRAIN**→Cancel (no indicator is shown) → (S-XBS)

S-XBS:

Select this setting to boost the low frequency range response.

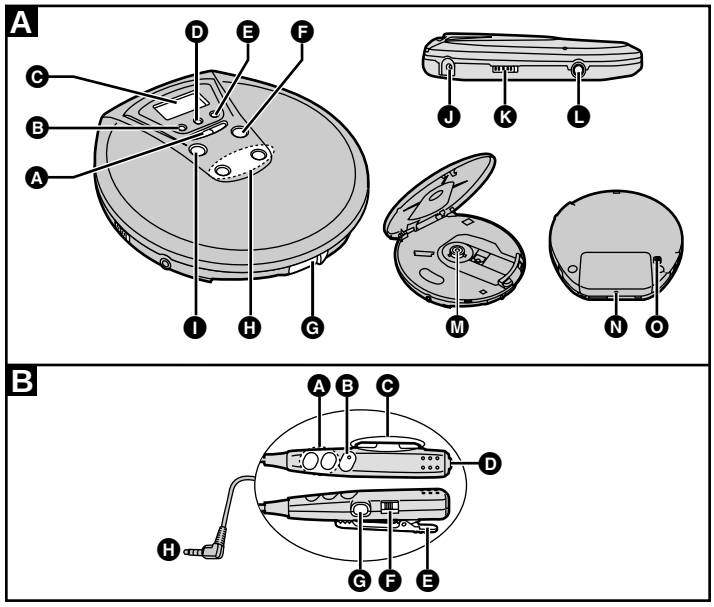
TRAIN:

Select this setting to avoid annoying other passengers with noise from your earphones while riding on the train, or to reduce fatigue when listening for a long period of time.

Note

The setting returns to S-XBS when you disconnect the power source.

Location of Controls



Portable CD Player A

- Ⓐ **Headphone volume control buttons (−,VOLUME,+)**
- Ⓑ **Memory/recall button (MEMORY/RECALL)**
- Ⓒ **Display**
- Ⓓ **EQ button (EQ)**
- Ⓔ **Mode button (MODE)**
- Ⓕ **Play/pause button (▶❚❚)**
- Ⓖ **Open switch (OPEN ▶)**
- Ⓗ **Skip/search buttons (|◀◀, ▶▶| ◀◀ , ▶▶)**
- Ⓘ **Stop/operation off button (■,OPR OFF)**
- Ⓙ **DC IN jack (DC IN 4.5 V ⟡⊙⟡)**
- Ⓚ **Hold switch (HOLD)**
- Ⓛ **Headphone jack (🎧)**
- Ⓜ **CD release button (PUSH)**
- Ⓝ **Hole for car mounting base**
- Ⓞ **Battery lid lock (LOCK)**

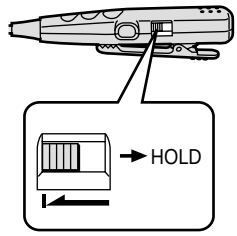
Wired remote control B

- Ⓐ **Skip/search buttons (|◀◀, ▶▶|)**
- Ⓑ **Play/stop/operation off button (■/▶)**
- Ⓒ **Volume control buttons (−,VOL,+)**
- Ⓓ **Earphone jack**
- Ⓔ **Clip**
- Ⓕ **Hold switch (HOLD)**
- Ⓖ **EQ button (EQ)**
- Ⓗ **Plug**

Using the Wired Remote Control

The remote control can be operated regardless of the hold mode of the unit.

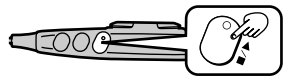
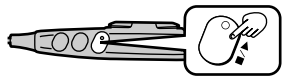
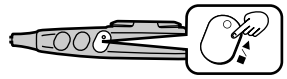
Preparation:
Release the remote control from the HOLD mode.



■Operation confirmation tones

When an operation button is pressed, a confirmation tone sounds. Refer to the parentheses in the illustration for the different types of confirmation tones.

How to use the wired remote control

To start play	Press once during off or stop mode.  (Beep)
To stop play	Press once during play.  (Beep...Beep)
To turn off the unit	Press and hold during play or stop mode.  (Beep...Bee...p)

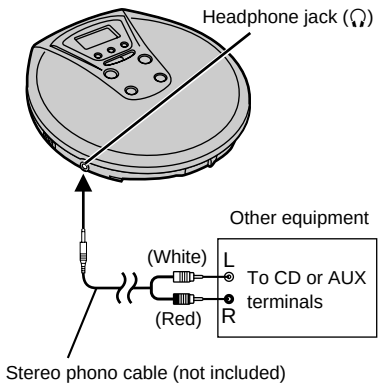
Skipping tracks	Press once during play. (Press [⏮] twice to skip to the beginning of the previous tracks.) **Backward** (Beep Beep Beep) **Forward** (Beep Beep) Press and hold during play.
Searching through tracks	
To adjust the volume	●The volume range is 0–25. (Press and hold to change the volume successively.) ●A tone (beep-beep) sounds when you reach the minimum or maximum volume. **Decrease** (Beep) VOL **Increase** (Beep)

Using the Unit with Optional Accessories

Using the unit with an audio system

Using stereo phono cable (not included), you can listen to CDs on your audio system.

- Turn off this unit and the other equipment before connection.
- Do not connect the cable to the PHONO jacks on the amplifier.
- Obtain the optional connecting cable if the other equipment comes with mini-phone jacks.
- Set the unit's volume to 10, then adjust the volume level on the other equipment.
- You can connect speakers, active or otherwise, with an impedance of 1 kΩ or less to the headphone jack.



Using the unit with a car audio system

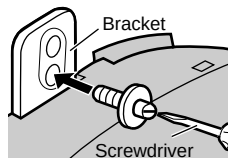
Items to be purchased

For connection to the car audio system:
Car stereo cassette adaptor (SH-CDM10A)

Connect the car stereo cassette adaptor to the unit's headphone jack.
(When doing this, set this unit's volume to 10.)

For securing the unit and connecting the power supply:
- Car adaptor (SH-CDC9)
- Car mounting kit (SH-CDF20)

Note when using the car mounting kit (SH-CDF20)



①Remove the screw from the bracket at the rear of the car mounting base.
②Replace the screw in the lower hole of the bracket.

Note
- When you switch off the car, volume and sound quality may return to the original settings and the resume function may work even if you change the disc.
- It may not be possible to use the unit with some types of car stereos owing to restrictions imposed by the construction of the car stereo cassette adaptor.

For further details, refer to the instructions of the part concerned.

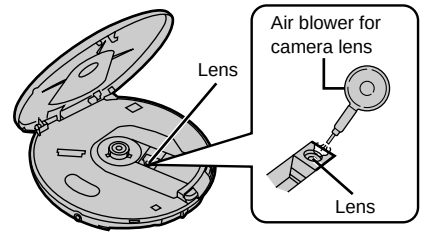
Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dipped in a soap-and-water solution or a weak detergent solution.
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Maintaining the lens

Open the lid and clean the lens as shown in the figure.
Use a cotton swab to gently wipe off any finger-prints.
Recommended product: Lens cleaner kit (SZZP1038C)



Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Problem	Check this
Cannot close the lid.	Is the disc properly secured in place?
Cannot play discs.	●Is the unit in HOLD mode? ●Is the disc properly secured in place? ●Is there condensation on the lens? (Wait for about an hour and then try again.) ●Is the disc dirty or scratched?
Tracks on disc do not play in order, starting with the first track.	●Is the random play mode on? ●Did you stop play in the middle of the disc last time?
Cannot hear music—too noisy.	●Have the earphone and wired remote control plugs been inserted firmly? ●Are the plugs dirty? (Wipe away dirt on plug.) ●Separate the unit from mobile phones.
TV picture is distorted. Radio reception is noisy.	Are you using the unit too near a TV or tuner? (Keep the unit away from the TV or tuner.)
Cannot close the battery lid.	The lid is raised slightly when using AA, LR6 (UM-3) batteries.

Specifications

Audio
No. of channels: 2 (left and right, stereo)
Frequency response: 20 to 20,000 Hz (+0 dB to −7 dB)
DA converter: 1 bit, MASH
Headphone output level: RMS max. 8 mW+8 mW/16 Ω (adjustable)

Pickup
Light source: Semiconductor laser
Wavelength: 780 nm

General
Operational temperature range: 0 ˚C–40 ˚C
Rechargeable temperature range: 5 ˚C–40 ˚C
Power supply: DC 4.5 V
Power consumption
When using AC adaptor: 2.9 W
When recharging: 4.0 W

Note:
Specifications are subject to change without notice.
Mass and dimensions are approximate.

Play time:
(When used in hold mode with EQ canceled, at 25 ˚C, on a flat, stable surface)

Batteries used	Play time
2 alkaline batteries (LR03)	About 14 hours
2 alkaline batteries (LR6)	About 35 hours
2 rechargeable Ni-Cd batteries [P-3GAVE (T) /2B]	About 15 hours
2 nickel-metal hydride rechargeable batteries [HHR-4AHE(T) /2B]	About 9 hours

●Batteries not included.
●The play time may be less depending on the operating conditions.
●Play time will be considerably reduced when playing CD-RW.
Recharging time
P-3GAVE (T) /2B About 5 hours
HHR-4AHE (T) /2B About 5 hours
Dimensions (W×H×D):
131×21.7 (27.0 with AA,LR6 batteries)×135.7 mm
Mass: 172.5 g (with AAA, LR03 batteries)
196.3 g (with AA LR6 batteries)
150.0 g (without batteries)

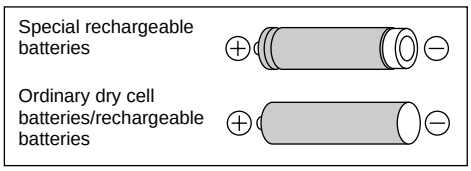
Cautions

Selection and care of rechargeable / dry cell batteries

■ Selection

As a safety precaution, the portable CD players made by Panasonic are constructed so it is impossible to recharge ordinary batteries.
Only batteries especially designed for this unit can be recharged.
Special rechargeable Ni-Cd batteries:
For United Kingdom
P-3GAVE/2B (set of 2)
For others
P-3GAVT/2B (set of 2)
Special nickel-metal hydride rechargeable batteries:
For United Kingdom
HHR-4AHE/2B (set of 2)
For others
HHR-4AHT/2B (set of 2)

For details, check with your dealer.



●If rechargeable battery play time is short after recharging, the batteries have reached the end of their service life. Replace them with the recommended replacements.
●Play time may be shorter than usual after recharging batteries for the first time or after they have been unused for a long time. Repeatedly recharge and discharge the batteries if this occurs to restore them to normal.

■ Care

To prevent battery damage, electrolyte leakage and short-circuiting, heed the following points.
●Do not peel off the covering on batteries and do not use if the covering has been peeled off.
●Align the poles ⊕ and ⊖ correctly when inserting the batteries.
●Do not mix different types of batteries or old and new batteries.
●Remove the batteries if you do not intend to use the unit for a long time.
●Do not throw into fire, short-circuit, disassemble, or subject to excessive heat.
●Do not attempt to recharge dry cell batteries.
●Do not allow metal objects to touch the battery terminals as this may cause short-circuiting which is dangerous.
●When carrying batteries in a pocket or bag, ensure no metal objects such as necklaces are placed together with them. Contact with metal may cause short-circuiting which can cause a fire.

(For United Kingdom)

Notice about the rechargeable battery
The battery is designated recyclable.
Please follow your local recycling regulations.

AC adaptor

●Handle the AC adaptor carefully. Improper handling is dangerous.
  ●Do not touch it with wet hands.
  ●Do not place heavy objects on top of it.
  ●Do not forcibly bend it.
●Be sure to connect only the AC adaptor provided with the unit.
●Disconnect the AC adaptor from the power outlet if the unit is not going to be used for a long time.

Unit

No altering or remodeling
This can cause malfunctioning.
No dropping or strong impacts
This may damage the unit.
Locations to be avoided
Avoid using the unit in the following locations since they can cause malfunctioning.
1. Bathrooms and other moisture-prone places
2. Warehouses and other dusty places
3. Very hot places near heating appliances, etc.

Do not leave the unit exposed to direct sunlight for long periods of time
This may deform or discolor the cabinet and may also cause malfunctioning.

Precautions for Listening with the Headphones or Earphones

●Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.
●If you experience a ringing in your ears, reduce volume or discontinue use.
●Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.
●You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
●Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.
●Discontinue use if you experience discomfort with the headphones or earphones. Continued use may cause rashes or other allergic reactions.

When driving a car

In the interest of traffic safety, do not operate the unit while driving.